






**System and method for preventing artifacts in an audio data encoder device****Publication number:** TW454172 (B)**Publication date:** 2001-09-11**Inventor(s):** YIN LIN [FI]**Applicant(s):** SONY ELECTRONICS INC [US]**Classification:****- international:** **G10L19/02; G10L19/00; G10L19/00;** (IPC1-7): G10L9/00; H04B1/00**- European:** G10L19/00B**Application number:** TW19990122368 19991218**Priority number(s):** US19980220320 19981224**Also published as:** WO0039790 (A1) US6240379 (B1) JP2002533790 (T) EP1057173 (A1) EP1057173 (B1)[more >>](#)**Abstract of TW 454172 (B)**

A system and method for preventing artifacts in an audio data encoder device comprises a filter bank for filtering source audio data to produce frequency sub-bands, a psycho-acoustic modeler for calculating signal-to-masking ratios for the source audio data, and a bit allocator for using the signal-to-masking ratios to assign a finite number of allocation bits to represent the frequency sub-bands. In the absence of a defined significant event, the bit allocator performs a sub-band forcing strategy, including a prebit allocation procedure, to prevent artifacts or discontinuities in the encoded audio data.

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